

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: December 5, 1994
Date Received: November 14, 1994
Project: 7238, Cal-Fran Testing, PO #M37248
Date Samples Extracted: November 15, 1994

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR CHROMIUM, COPPER, NICKEL AND ZINC**
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M37248 "A"	26,000	6,000	28,000	340
M37248 "B"	940	600	760	13
M37248 "C"	1.1	5.6	0.40	1.8
M37248 "D"	0.30	0.52	0.07	0.32

Quality Assurance

Blank	<0.05	<0.05	<0.05	<0.05
M37248 "D" (Duplicate)	0.29	0.51	<0.05	0.37
M37248 "D" (Matrix Spike) % Recovery	101%	104%	101%	99%
M37248 "D" (Matrix Spike Duplicate) % Recovery	99%	97%	99%	99%
Spike Blank % Recovery	97%	98%	98%	97%
Spike Level	5	5	10	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: December 5, 1994
Date Received: November 14, 1994
Project: 7238, Cal-Fran Testing, PO #M37248
Date Samples Extracted: November 30, 1994
Date Extracts Analyzed: November 30, 1994

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR PERCENT ACID**

<u>Sample ID</u>	<u>Acid</u>
M37248 "A"	9.4

Quality Assurance

M37428 "A" (Duplicate)	9.0
---------------------------	-----

FRIEDMAN & BRUYA, INC.
3012 16th Avenue West
Seattle, WA 98119
(206) 285-8282

SAMPLE CHAIN OF CUSTODY

11. BTB. AI
11/14/94
2:33

Send Report To: Alaskan Copper Works Contact Gerald Thompson
Company Alaskan Copper Works
Address 6283 Hansen St
City, State, Zip Seattle WA 98134
Phone # (206) - 623-5800 x218 Date 11-14-94

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	CAL-FRAN testing	m 37248
SAMPLERS (signature)		PROJECT LOCATION
REMARKS		SAMPLE DISPOSAL INFORMATION
Please SAX Results <u>Thanks</u>		<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions

Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
m 37248 "A"	11/14/94 12:30	Natural Acid	1	54923	% of Acid ; CR Cu Ni Zn
m 37248 "B"	11/14/94 12:30	Effluent	1	54924	CR Cu Ni Zn
m 37248 "C"	11/14/94 12:30	Natural Distillate	1	54925	CR Cu Ni Zn
m 37248 "D"	11/14/94 12:30	Effluent Distillate	1	54926	CR Cu Ni Zn

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by:	GERALD Thompson	Alaskan Copper	11/14/94	14:23 PM
Received by:	Kathy Miller	FBI	11/14/94	1:25
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

DUPLICATE COPY

December 5, 1994

INVOICE # 94ACU1205-1

**Alaskan Copper Works
628 South Hanford
Seattle, WA 98134**

**RE: Project 7238, Cal-Fran Testing, PO #M37248: Results of testing requested by
Gerald Thompson, Project Leader for material submitted on November 14,
1994.**

4 water samples analyzed for Chromium, Copper, Nickel and Zinc @ \$65 per sample	\$ 260.00
1 water sample analyzed for Percent Acid @ \$10 per sample	<u>10.00</u>
Amount Due	\$ 270.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

December 5, 1994

**Gerald Thompson, Project Leader
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134**

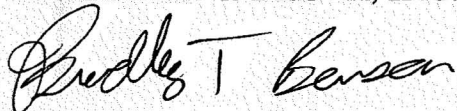
Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on November 14, 1994 from your 7238, Cal-Fran Testing, PO #M37248 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



**Bradley T. Benson
Chemist**

**jdp
Enclosures**

ACU1205R

AKC-0013105